

SAM™ data sheet SAM-800-4-5ps-x, $\lambda = 800$ nm

Laser wavelength	$\lambda = 800$ nm
High reflection band	$\lambda = 780 \dots 820$ nm
Low intensity reflectance	$R_0 = 96$ %
Absorbance	$A_0 = 2$ %
Modulation depth	$\Delta R = 1.2$ %
Saturation fluence	$\Phi_{\text{sat}} = 60 \text{ } \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 5$ ps
Damage threshold	$\Phi = 3 \text{ mJ}/\text{cm}^2$
Chip area	4.0 mm x 4.0 mm; other dimensions on request
Chip thickness	450 μm
Protection	The SAM is protected with a dielectric front layer
Mounting option x denotes the type of mounting as follows:	
x = 0	unmounted
x = 12.7 g	glued on a gold plated Cu-cylinder with 12.7 mm \varnothing
x = 25.4 g	glued on a gold plated Cu-cylinder with 25.4 mm \varnothing
x = 12.7 s	soldered on a gold plated Cu-cylinder with 12.7 mm \varnothing
x = 25.4 s	soldered on a gold plated Cu-cylinder with 25.4 mm \varnothing
x = 25.0 w	soldered on a water cooled Cu-cylinder with 25.0 mm \varnothing
x = FC	mounted on a 1 m monomode fiber cable with FC connector

Low intensity spectral reflectance

